

Appl. No. 09/928,925
Amdt. Dated August 16, 2005
Reply to Office Action Mailed May 20, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

Claim 2 (currently amended): The method of claim ~~[[1]]~~ 4, wherein the wireless computing device is a personal digital assistant (PDA).

Claim 3 (currently amended): The method of claim ~~[[1]]~~ 4, further comprising the steps of:

prior to the transmitting step, determining whether or not the wireless computing device is in an on-line mode or an off-line mode; and if the wireless computing device is in an on-line mode, proceeding to the transmitting of the synchronization request message step; or

if the wireless computing device is in an off-line mode, placing the synchronization request message into a synchronization queue; and

proceeding to the transmitting of the synchronization request message step once the wireless computing device is in the on-line mode.

Claim 4 (currently amended): ~~The method of claim 1;~~ A method of database synchronization between a first database on a server and

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a second corresponding database on a wireless computing device,
comprising the steps of:

generating on a wireless computing device a synchronization
request message, wherein the synchronization request message
includes a data object, and an action executed on the data object;

transmitting the synchronization request message from the
wireless computing device to a server;

validating the data object and the action on the server based upon
the synchronization request message and business logic, defined
by a user of the wireless computing device, corresponding to a
domain of the data object;

updating a remote data storage on the server based upon the
business logic;

generating a synchronization response message on the server
based on results corresponding to the validating and the updating
steps, wherein the synchronization response message includes a
value corresponding to the results[.];

transmitting the synchronization response message from the
server to the wireless computing device; and

updating a data storage on the wireless computing device based
upon the synchronization response message.

Claim 5 (currently amended): The method of claim [[1]] 4, wherein the synchronization request message includes an old data object corresponding to the data object prior to the execution of the action, and the validating step comprises the step of:

comparing the old data object to a second data object, in the remote data storage, corresponding to the data object.

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Claim 6 (original): The method of claim 5, wherein the synchronization response message includes the copy of the data object if the old data object does not match the copy of the data object.

Claim 7 (currently amended): The method of claim ~~[[1]]~~ 4, wherein the synchronization request message includes a first timestamp corresponding to a time the action was executed on the data object, and the validating step comprises the step of:

comparing the first timestamp with a second timestamp on a second object, stored in the remote data storage, corresponding to the data object.

Claim 8 (currently amended): A method of verifying an action taken on a data object stored on a local data storage of a wireless computing device, comprising the steps of:

generating a synchronization request message on a wireless computing device, wherein the synchronization request message includes a copy of a data object on a local data storage, an action that has been taken on the data object, and an old data object corresponding to the data object prior to when the action was taken;

transmitting the synchronization request message from the wireless computing device to a server, ~~[[and]]~~

processing the copy of the data object on a remote data storage on the server based upon business logic corresponding to a domain of the data object and defined by a user of the wireless computing device~~[[.]]~~;

generating on the server a synchronization response message based upon a result of the processing step, wherein the

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synchronization response message includes a value
corresponding to the result; and
transmitting the synchronization response message to the
wireless computing device.

Claim 9 (currently amended): The method of claim 8, further comprising the steps of:

~~generating on the server a synchronization response message
based upon a result of the processing step;~~

~~transmitting the synchronization response message to the
wireless computing device; and~~

resetting the data object to the value of the old data object if the synchronization response message indicates that the processing step was not successful; or

setting a status corresponding to the data object to a value of "updated" if the synchronization response message indicates the processing step was successful.

Claim 10 (previously presented): The method of claim 8, wherein the processing step comprises the steps of:

validating the copy of the data object; and if the validating is successful,

updating a second data object, in the data storage of the server, corresponding to the data object.

Claim 11 (previously presented): The method of claim 10, wherein the validating step comprises the step of:

comparing the old data object to the second data object.

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Claim 12 (previously presented): The method of claim 10, wherein the synchronization request message includes a first timestamp corresponding to the data object, and the validating step comprises the step of:

comparing the first timestamp with a second timestamp corresponding to the second data object.

Claim 13 (original): The method of claim 8, wherein the wireless computing device is a personal digital assistant (PDA).

Claim 14 (original): The method of claim 8, wherein the wireless computing device is a computer.

Claim 15 (currently amended): A distributed data storage system, comprising:

a wireless computing device, comprising:

a local data storage;

logic for generating a synchronization request message, comprising:

a copy of a data object corresponding to a data object stored in the local data storage;

an action corresponding to an operation performed on the data object; and

an old data object corresponding to the data object prior to when the operation was performed on the data object; and

a server, comprising:

a remote data storage;

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business logic for processing the synchronization request message, generating on the server a synchronization response message based upon a result of the processing step, and transmitting the synchronization response message to the wireless computing device, wherein the business logic is defined by a user of the wireless computing device and corresponds to a domain of the data object and the synchronization response message includes a value corresponding to the result.

Claim 16 (previously presented): The distributed data storage system of claim 15, wherein the business logic comprises:

validating logic for determining whether or not the action can be executed on a second data object in the remote data storage and corresponding to the data object;

logic for executing the action on the second data object when the validation logic determines that the action can be executed on the second data object; and

conflict resolution logic that executes when the validation logic determines that the action cannot be executed on the second data object.

Claim 17 (previously presented): The distributed data storage system of claim 16, wherein the validation logic comprises:

logic for comparing the old data object to the second data object.

Claim 18 (previously presented): The distributed data storage system of claim 16, wherein the synchronization request message includes a first timestamp corresponding to the data object and the validation logic comprises:

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logic for comparing the first timestamp with a second timestamp
corresponding to the second data object.

Claim 19 (previously presented): The distributed data storage system of
claim 15, wherein the wireless computing device is a personal
digital assistant (PDA).

Claim 20 (previously presented): The distributed data storage system of
claim 15, wherein the wireless computing device is a computer.